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XIX.—Descriptions of New Pyralide of the Subfamily Pyraustine. By Sir George F. Hampson, Bart., F.Z.S., &c.

[Continued from vol. i. p. 280.]

# (3) Megastes erythrostolalis, sp. n.

2. Head yellow suffused with red; thorax and abdomen pale red with a crimson tinge or sometimes with a red-brown tinge; palpi white at base; pectus, legs, and ventral surface of abdomen silvery white. Fore wing pale red with a crimson tinge, more or less strongly suffused with silvery grey, the costa yellow from before the antemedial line to the postmedial line; antemedial line hardly traceable except at costa, red, oblique to discal fold and with slight yellowish-white spots on its outer side in upper part of cell, below the cell, and above inner margin; a bar-shaped yellowish white spot in end of cell with its lower extremity rather angled inwards and a large lunulate spot below end of cell, both defined by crimson-red; postmedial line formed by slight brown lunules tinged with red, oblique to vein 6 and slightly incurved at discal fold, a small yellow spot beyond it above vein 7 and larger white spot above vein 6, then defined on each side by slight yellow marks to vein 2; the terminal area yellow irrorated with red, its inner edge waved; a brown terminal line; cilia vellowish white. Hind wing pale red with a crimson tinge and more or less suffused with leaden grey especially just beyond the postmedial line; a large yellowish white patch beyond the cell before the postmedial line narrowing to a point at vein 1, defined on inner

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side by an oblique crimson-red line and with some crimson-red scales on it between veins 5 and 3; postmedial line crimson-red defined on outer side by narrow yellow marks in the interspaces, slightly waved, excurved to vein 3 then incurved and ending at tornus; the terminal area yellow irrorated with red, its inner edge waved; a brown terminal line; cilia yellowish white. Underside silvery white, the terminal half of fore wing and the hind wing except the cell and costal and terminal areas faintly tinged with brown; the fore wing with slight brown discoidal bar, waved postmedial line bent inwards at vein 2 to below end of cell, and wedge-shaped red-brown postmedial patch from costa to vein 5; the hind wing with waved red-brown postmedial line, indistinct except between veins 6 and 5.

Hab. VENEZUELA, Esteban Valley, Las Quiguas (Klages), 2 \, 2

type. Exp. 36-38 mm.

# (6) Omphisa leucostolalis, sp. n.

3. Head and thorax white mixed with some red-brown; abdomen white with red-brown segmental lines except on terminal segments and oblique blackish subdorsal streaks on segments 3 to 5, the anal tuft with some red-brown at base; palpi with black marks on the 1st and 2nd joints at sides and the 3rd joint black; pectus, legs, and ventral surface of abdomen white, the legs tinged with brown. Fore wing white irrorated with a few cupreousbrown scales, especially on basal area; anteniedial line cupreous brown, oblique; a minute cupreous brown spot in middle of cell and discoidal bar with white striga on it, a point beyond lower angle of cell above base of vein 3; postmedial line cupreous brown, forming a semicircular mark at costa, slightly angled outwards below costa, then incurved, excurved between veins 5 and 4, then oblique to vein 2 where it is retracted upwards to lower angle of cell, then oblique to inner margin at the antemedial line; subterminal line cupreous brown, slightly angled inwards at vein 6, then obliquely excurved to vein 4, then oblique and sinuous to the sinus of the postmedial line at vein 2 and excurved above inner margin; a slight cupreous brown terminal line. Hind wing white; an oblique dark cupreous brown discoidal bar with an oblique slightly sinuous line from it to above tornus; postmedial line cupreous brown, arising below costa and oblique to tornus, slightly excurved between veins 5 and 4; subterminal line cupreous brown, excurved from vein 6 to 4, then oblique to just beyond the postmedial line at vein 2 where it terminates; a dark cupreous brown terminal line and line near base of cilia.

Hab. Br. C. Africa, Mt. Mlanje (Neave), 1 & type. Exp.

34 mm.

# (5 a) Evergestis dognini, n. n.

Evergestis obliqualis, Dogn. Ann. Soc. Ent. Belg. 1905, p. 75 (nee Grote, 1883).

Peru.

#### (5 b) Evergestis inglorialis, sp. n.

d. Head, thorax, and abdomen reddish brown mixed with grey; antennæ dark brown; palpi, peetus, legs, and ventral surface of abdomen white tinged with brown. Fore wing grey strongly suffused with reddish brown; faint obliquely placed dark subbasal spots in and below the cell; antemedial line indistinct, dark, faintly defined on inner side by whitish, sinuous, oblique to median nervure, then inwardly oblique; a slight dark spot in middle of cell and diffused discoidal patch; postmedial line dark brown defined on outer side by whitish, excurved from below costa, where it is met by an oblique whitish shade from apex, to vein 6, then oblique; a rather triangular patch of dark suffusion on terminal area from below apex to vein 4 with a faint dark subterminal line from it to inner margin; a series of small dark spots before termen in the interspaces and a series of terminal black points on the veins. Hind wing semihyaline whitish tinged with brown, the terminal area rather narrowly suffused with dark brown; a terminal series of black points; cilia with a fine white line at base.

Hab. Peru, El Porvenir, 1 & type, Chanchamayo, La Mercede

(Watkins), 1 J. Exp. 36 mm.

# (1 a) Azochis trichotarsalis, sp. n.

Hind tarsi of male fringed with hair above to extremity.

J. Head and thorax white faintly tinged with brown, the frons dark brown, the neck and shoulders red-brown; abdomen redbrown with some white at base and a series of slight white dorsal spots, the anal tuft black tinged with grey; palpi dark brown above, white below; pectus, legs, and ventral surface of abdomen white, the fore tibiæ tinged with brown and black at extremity, the tarsi ringed with brown. Fore wing white, the costa suffused with bronze-brown, the basal area with some dark brown suffusion; antemedial line black-brown, curved and slightly waved; a small elliptical black-brown spot in upper part of cell towards extremity with white striga in centre; a black-brown discoidal bar with brownish white striga in centre and brown suffusion beyond and below it, defined by the black-brown medial line, which arises below the costa, slightly waved to vein 3, then retracted to below the discoidal bar and angled outwards above vein 1; postmedial line black-brown, waved, ending on termen at vein 1, with small black-brown spots on it below veins 3 and 2; black-brown striæ before termen above veins 7, 6 and a line between veins 6 and 4; cilia with a series of small dark brown spots. Hind wing semihyaline white; a faint sinuous brown line from lower angle of cell and a rather diffused black-brown patch at inner margin; postmedial line indistinct, brown, arising at vein 6, excurved from vein 5 to below 3 where it terminates; black-brown striæ before termen above and below vein 7 and a line from below vein 6 to above 4; cilia with a series of small black-brown spots at base to vein 2.

 ${\it Hab}.$  Venezuela, Esteban Valley, Las Quiguas (Klages), 1  ${\it d}$  type.  ${\it Exp.}$  42 mm.

# (6) Azochis cymographalis, sp. n.

Hind tibiæ of male at extremity and 1st joint of tarsi without

fringes of hair.

d. Head and thorax rufous mixed with grey; abdomen rufous mixed with some grey, some white at base and slight dorsal white spots on 2nd and 3rd segments, the anal tuft white tinged with brown; from and palpi deep rufous, the latter white at base; pectus, legs, and ventral surface of abdomen white, the fore and mid legs rufous above. Fore wing white with a faint rufous tinge. the costa rufous; the base suffused with rufous and with a waved blackish line near base; a slightly curved rufous antemedial line; a rufous spot in upper part of cell near its extremity and rufous discoidal bar angled inwards on median nervure, some pale rufous suffusion beyond it and a waved rufous line from vein 2 below end of cell to inner margin; postmedial line rufous, crenulate, erect to below vein 3, then rather oblique to tornus; a rufous terminal line expanding into a slight spot at discal fold and a line near base of cilia. Hind wing semihyaline white with a faint rufous tinge; postmedial line rufous, arising at vein 7 and waved to vein 2, slightly bent outwards at vein 5, at vein 2 bent inwards and almost obsolete to below end of cell, then fuscous and forming a slight diffused patch at inner margin; a rufous terminal line to vein 2 and slight line near base of cilia.

Hab. Ecuador, R. Pastaza, El Topo (Palmer), 1 & type, El

Rozario (Palmer), 1 d. Exp. 42-44 mm.

# (20 a) Cocidophora ruficostalis, sp. n.

Fore wing of male with the retinaculum formed by a fan of scales, but without fan at upper angle of cell or postmedial costal

swelling.

- \$\mathcal{S}\$. Head and thorax yellow suffused with rufous; abdomen yellow tinged with rufous; palpi rufous with some white at base; pectus, legs, and ventral surface of abdomen pale yellow, the fore tibiae with rufous band at extremity. Fore wing yellowish suffused with rufous, the base, costal and terminal areas deeper rufous; an indistinct diffused rufous antemedial line; a brown discoidal striga; postmedial line rather diffused rufous, obliquely curved to vein 2, then erect. Hind wing pale yellow tinged with rufous; an oblique rather diffused rufous postmedial line from costa to vein 2; a rufous terminal band from apex to vein 2; cilia rufous except towards tornus.
- Q. Fore wing clearer yellow except the costal and terminal areas, the postmedial line more curved between veins 5 and 2; hind wing clear yellow except the terminal band, the postmedial line excurved between veins 5 and 2.

Hab. Br. C. Africa, Mt. Mlanje (Neave), 2 ♀; Port. E. Africa, Ruo Valley (Neave), 4 ♂, 1 ♀, Mt. Chiperone (Neave), 3 ♂, 3 ♀ type. Exp. 30-34 mm.

# (20 b) Crocidophora megaptyona, sp. n.

of. Head, thorax, and abdomen yellowish suffused with rufous; palpi rufous, narrowly white in front to extremity of 2nd joint; pectus, legs, and ventral surface of abdomen white. Fore wing yellowish suffused with rufous, the costal area deeper rufous; an indistinct rather diffused rufous postmedial line, incurved below vein 3; a fine rufous terminal line. Hind wing yellowish white tinged with rufous; an indistinct diffused rufous postmedial line from costa to vein 2; the terminal area rufous to submedian fold; cilia tinged with rufous and with a slight rufous line near base to submedian fold. Underside of fore wing with the fan of scales very large and silvery leaden grey.

2. Fore wing with dark discoidal striga.

Hab. "Germ. E. Africa," Dar-es-salaam, 1 ♂; Br. C. Africa, Mt. Mlauje (Neave), 1 ♀; Port. E. Africa, Mt. Chiperone (Neave), 4 ♂, 1♀ type. Exp. 22-26 mm.

#### (28 a) Crocidophora rufitinctalis, sp. n.

J. Head and thorax pale rufous; abdomen whitish tinged with rufous; palpi white at base; pectus, legs, and ventral surface of abdomen white. Fore wing pale rufous; an indistinct brownish postmedial line, excurved to vein 3, then retracted to median nervure before end of cell and erect to inner margin; cilia white at tips. Hind wing pale rufous, the cell and inner margin whitish; an indistinct brownish postmedial line from discal to submedian fold; cilia whitish at tips.

Hab. Formosa, Tainan (Wileman), 1 & type. Exp. 24 mm.

# (18 a) Polygrammodes purpureorufalis, sp. n.

Q. Head, thorax, and abdomen pale purplish red; palpi white below to near extremity of 2nd joint; pectus and ventral surface of abdomen white, the fore coxæ purplish red; (legs wanting). Fore wing pale purplish red; a faint brownish spot in upper part of cell towards extremity and discoidal bar; a faint obliquely curved brownish line beyond the cell with another line beyond it, erect to vein 5, then oblique. Hind wing pale purplish red, the costal area to near apex and the inner margin white.

Hab. Peru, Chanchamayo, 1 ♀ type. Exp. 52 mm.

# (23 a) Polygrammodes junctilinealis, sp. n.

Q. Head and thorax white suffused with rufous; abdomen white tinged with yellow and with rufous towards extremity,

oblique black subdorsal streaks on 2nd to 5th segments; antennæ rufous; sides of frons, the 2nd joint of palpi above towards base, and the 3rd joint black; pectus, legs, and ventral surface of abdomen white, the fore legs tinged with rufous, the tibiæ with dark band at extremity, and the tarsi ringed with rufous. Fore wing yellowish white, the basal area, costal area to end of cell, the cell, and the veins of terminal half tinged with rufous; a redbrown streak below basal half of costa and diffused red-brown subbasal line from cell to inner margin; a red-brown spot in cell towards its extremity with elliptical red-brown spot below it in submedian interspace, and a quadrate discoidal patch with yellowish striga in centre; postmedial line strong, red-brown, waved, bent outwards between veins 8 and 7, then incurved, angled outwards at vein 5, then again incurved to vein 2 on which it is retracted to lower angle of cell, then oblique and from inner margin curved upwards to the spot below the cell; subterminal line red-brown, waved, excurved at vein 5, then oblique and joined above inner margin by an oblique bar from the angle of the postmedial line at vein 2, bent inwards on inner margin for a short distance; a red-brown terminal line. Hind wing yellowish white; a blackbrown discoidal bar with strong slightly curved line from it to above inner margin; postmedial line strong, dark red brown, rather oblique to vein 6, angled outwards at vein 5, then slightly curved to inner margin near tornus, joined at vein 2 by a waved red-brown subterminal line, excurved at vein 5; a dark red-brown terminal line.

Hab. SIERRA LEONE, Kennema (Mrs. Addison), 1  $\$  ; UGANDA, Lake George (Neave), 1  $\$  type. Exp. 38-50 mm.

# (25 e) Polygrammodes flavescens, sp. n.

Q. Head, thorax, and abdomen pale yellow tinged with rufous; palpi red-brown, white at base; pectus, legs, and ventral surface of abdomen ochreous white, the fore femora dark brown above and the tibiæ with dark band at extremity, the tarsi ringed with brown. Fore wing yellow tinged with rufous, the terminal area more suffused with rufous; a faint curved rufous antemedial line; a faint rufous point in middle of cell and discoidal bar; postmedial line pale rufous, slightly waved to vein 5, then excurved and erenulate to vein 2 on which it is retracted to below end of eell, then sinuous to inner margin; the inner edge of the rufous terminal area dentate; some vellow on termen in the interspaces; eilia white with a pale brown line at base. Hind wing pale yellow; a faint waved rufous line from beyond lower angle of cell to inner margin; postmedial line rufous, waved, arising at vein 6, excurved between veins 5 and 3, then oblique to termen above tornus; a slightly waved rufous subterminal line from eosta to vein 2, the veins beyond it streaked with rufous; eilia white with a pale brownish line near base.

Hab. Peru, San Domingo (Ockenden), 2  $\ \$ 2 type. Exp. 42 mm.

#### Genus Pachyzancla, insert

Psara, Snell. Tijd. v. Ent. xviii. p. 239 (1875) Type.

periusalis,
which has priority.

#### (1a) Psara palpalis, sp. n.

Palpi of male curved outwards and widely separated to near tips, where they almost meet, fringed with hair above and below.

Head, thorax, and abdomen fuscous brown tinged with grey, the last with white segmental lines; from and palpi black-brown, the latter fringed with white hair below to middle of 2nd joint; pectus, legs, and ventral surface of abdomen white tinged with red-brown, the fore tibiæ with black band at extremity. Fore wing white suffused with fuscous brown, the costal area and terminal area broadly fuscous brown tinged with grey; antemedial line blackish, oblique to median nervure; a small blackish spot in middle of eell and discoidal bar; postmedial line blackish defined on outer side by white, erect to vein 5, then excurved to below vein 3, where it is retracted to below end of cell, then oblique to inner margin; a fine whitish line at base of cilia. Hind wing fuscous brown tinged with grey; an oblique blackish discoidal bar; postmedial line blackish defined on outer side by whitish, bent outwards and slightly waved between veins 5 and 2; a slight blackish terminal line and white line at base of cilia.

Hab. Cameroons, Ja R., Bitje (Bates), 2  $\delta$ , 4  $\circ$ ; Br. C. Africa, Mt. Mlanje (Neave), 1  $\delta$  type. Exp. 26-32 mm.

# (1b) Psara barbipalpalis, sp. n.

Palpi of male with the second joint fringed with very long hair in front.

σ. Head and thorax pale glossy grey-brown; abdomen whitish tinged with pale red-brown and with slight dark segmental lines, the extremity tinged with fuscous, the genital tufts white; palpi darker brown, white at base, the hair in front of 2nd joint reddish brown; pectus, legs, and ventral surface of abdomen white, the fore tibiæ with black band at extremity. Fore wing pale glossy grey-brown; a rather oblique dark antemedial line; a slight dark discoidal lunule; postmedial line dark, slightly excurved to below vein 3, then retracted to lower angle of cell and erect to inner margin. Hind wing pale glossy grey-brown; an oblique dark discoidal bar; postmedial slight, dark, curved, incurved at vein 2; cilia white with a brown line near base; the underside white faintly tinged with brown.

 $\widehat{H}ab$ . Colombia, Don Amo (H. M. Smith), 1 of type. Exp. 22 mm.

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# (20 b) Psara normalis, sp. n.

3. Head, thorax, and abdomen pale grey-brown with a faint reddish tinge, the last with whitish segmental lines; palpi darker

brown, white below to near extremity of 2nd joint; pectus, legs, and ventral surface of abdomen white with a faint red-brown tinge, the fore tibiæ brown. Fore wing grey-brown with a faint reddish tinge; antemedial line blackish, oblique to median nervure; a slight blackish spot in middle of cell and elliptical black discoidal spot; postmedial line blackish, erect to discal fold, then excurved to below vein 3 where it is retracted to below end of cell and excurved below submedian fold; a fine whitish line at base of cilia. Hind wing grey-brown with a faint reddish tinge; an oblique black discoidal bar; postmedial line indistinct, dark, rather diffused, excurved from discal fold to below vein 3, then retracted to below end of cell and excurved to inner margin; cilia with a fine white line at base, the tips whitish towards tornus.

Hab. Ecuador, Loja (Abbé Gaujon), 1 & type. Exp. 36 mm.

# (20 c) Psara retrorsalis, sp. n.

♂. Head, thorax, and abdomen very pale reddish brown, the anal tuft white faintly tinged with red-brown; palpi brown, white in front to extremity of 2nd joint; pectus, legs, and ventral surface of abdomen white. Fore wing white suffused with pale red-brown, the marginal areas pale reddish brown; antemedial line pale brown, oblique; an oblique black discoidal striga; postmedial line pale brown defined on outer side by whitish, excurved from vein 5 to below 3, then retracted to just below angle of cell and slightly excurved above inner margin; cilia white tinged with brown. Hind wing very pale reddish brown; a faint oblique dark discoidal bar; postmedial line pale brown slightly defined on outer side by whitish, excurved and very slightly waved between veins 5 and 2, then retracted to below angle of cell and oblique to above tornus; cilia white with a pale brown line near base; the underside white with a faint brownish tinge, a blackish discoidal point.

Hab. Ecuador, Zamora (Abbé Gaujon), 2 o type; Peru,

Carabaya, Huacamayo (Ockenden), 1 d. Exp. 26 mm.

# (31) Psara melanosoma, sp. n.

♂. Head and thorax orange-yellow; abdomen orange-yellow suffused with blackish brown except the three basal segments dorsally; antennæ blackish; frons with white lines at sides; palpi grey-brown, the basal joint and the 2nd joint in front at base white; pectus, legs, and ventral surface of abdomen pale grey-brown. Fore and hind wings uniform orange-yellow, the cilia white tinged with brown.

Hab. Peru, Carabaya, Oconeque (Ockenden), 2 & type. Exp.

26-30 mm.

# (6) Rhectosomia vau-signalis, sp. n.

3. Head, thorax, and abdomen white mixed with pale redbrown and slightly irrorated with black, the last with white

segmental lines; antennæ tinged with red-brown; palpi pale reddish brown with some white at base; pectus, legs, and ventral surface of abdomen white mixed with pale reddish brown. wing white mostly suffused with pale reddish brown and irrorated with a few black scales; a diffused band of black scales near base; an antemedial band of black scales, indistinct to submedian fold where it is angled outwards, then more distinctly black; a blackish striga in middle of cell and V-shaped white discoidal mark defined by diffused black; a pale reddish brown medial band, erect to median nervure before the discoidal mark, then very oblique and defined on outer side by a waved blackish line; elongate white marks below end of cell above and below vein 2; a faint dark postmedial line, oblique to vein 6, then erect, waved, and with some black scales on it to tornus, a rather triangular pale red-brown patch on terminal area between veins 7 and 3. Hind wing white; a terminal series of dark points to vein 2, a small black patch below vein 2 with a line from it to tornus; cilia with dark brown mixed towards tornus.

Hab. Peru, Carabaya, Oconeque (Ockenden), 1  $\circlearrowleft$  type. Exp. 38 mm.

#### (51 a) Loxostege obliquivialis, sp. n.

\$\delta\$. Head and thorax pale ochreous yellow, the patagia with redbrown patches at base, the dorsum of thorax red-brown; abdomen reddish brown, the basal segment ochreous, rufous behind, the anal tuft ochreous; antennæ brown; palpi with some blackish at tips; pectus, legs, and ventral surface of abdomen ochreous white. Fore wing pale ochreous; the cell and faseia below it to middle reddish brown; three obliquely placed reddish brown antenedial spots from below the cell to inner margin; a very oblique reddish brown postmedial band from below the costa to inner margin, conjoined to spots beyond the cell and below base of vein 2; an oblique subterminal series of reddish brown spots in the interspaces; a terminal series of small brown spots. Hind wing white, the costal area broadly and terminal area to submedian fold tinged with redbrown. Underside white, the fore wing and costal area of hind wing tinged with red-brown.

 $\hat{H}ab$ . Transvaal, Waterberg Distr. (Zutrencka), 1  $\sigma$  type.

Exp. 30 nm.

# (53 a) Loxostege aureodiscalis, sp. n.

Q. Head whitish; thorax rufous mixed with whitish; abdomen black with white segmental bands and some rufous at base; antennæ blackish; sides of frons and palpi black, the latter white in

front to extremity of 2nd joint; pectus, legs, and ventral surface of abdomen white, the fore legs suffused with black-brown, the mid and hind legs with red-brown. Fore wing whitish thickly irrorated with rufous and dark brown, the costal area darker towards base; a dark antemedial shade; a whitish medial band thickly irrorated with rufous from subcostal nervure to inner margin; dark bars before and beyond the discocellulars; a whitish band thickly irrorated with rufous before the postmedial line from costa to below vein 3; postmedial line rather diffused black, slightly incurved at discal fold, below vein 3 retracted to lower angle of cell, then erect; cilia white with dark line at middle, the tips with brown mixed. Hind wing deep orange, the inner margin and terminal area black, the latter very broad at costa with its inner edge oblique to vein 4; a round black discoidal spot; cilia white with a dark line at middle. Underside of fore wing black irrorated with white, the basal inner area and bands orange-yellow; hind wing orange-vellow, the black discoidal spot and terminal band irrorated with white.

Hab. W. Australia, Yallingup (R. W. Turner), 1 ♀ type.

Exp. 20 mm.

#### Genus Calliphlycta, nov.

Type, C. metaxantha.

Probose is fully developed; palpi slightly fringed with hair above and below, in male with the 2nd joint obliquely upturned; the 3rd porrect and long, in female downcurved and extending about three times length of head; maxillary palpi minute; from smooth, rounded; antennæ of male ciliated and minutely serrate; hind tibiæ with the outer spurs nearly as long as the inner. Fore wing with the apex rounded, the termen evenly curved; vein 3 from just before angle of cell; 4, 5 from angle; 6, 7 shortly stalked; 8, 9 stalked; 10, 11 from cell, 11 anastomosing with 12; the retinaculum of male bar-shaped. Hind wing with the cell long; vein 3 from well before angle of cell; 4, 5 from angle; 6, 7 from upper angle, 7 anastomosing with 8.

In key differs from Calamochrous in the fore wing having veins

6, 7 stalked and 11 anastomosing with 12.

# Calliphlycta metaxantha, sp. n.

Head yellow, the frons white, the antennæ brown ringed with white, the palpi white tinged with yellow and slightly irrorated with brown; thorax white, the tegulæ with their terminal half black, the patagia black at tips and with black spot behind them; abdomen yellow banded with black; pectus, legs, and ventral surface of abdomen white, the fore legs suffused with dark brown, the mid tibiæ with black band at extremity, the abdomen with blackish segmental bands. Fore wing silvery white; the costal area dark cupreous brown to the postmedial band; a black-brown

band near base; a cupreous brown antemedial band with darker edges and line of silvery scales at middle, incurved just below the cell; a cupreous brown postmedial band with darker edges and line of silvery scales at middle, incurved to vein 4, then bent inwards to below end of cell and incurved to inner margin; a cupreous brown subterminal band, arising from apex, its inner edge angled inwards at discal fold and its outer edge dentate to vein 4, confluent with the postmedial band below vein 4, then strongly incurved; cilia with series of black spots to vein 4, then a black line interrupted at submedian fold, the tips with brown mixed. Hind wing yellow with black terminal band to below vein 2; cilia white chequered with black to vein 2, then yellow. Underside of fore wing brown, the inner area white to near tornus; an oblique white subterminal band from costa to vein 6, the termen with the interspaces indented by white marks; hind wing yellow, the costal area white except towards base, a black-brown subterminal band from below costa to below vein 2, its outer edge slightly waved and with the termen white beyond it.

Hab. W. Australia, Yallingup (R. W. Turner), 1 ♂, 5 ♀

type. Exp. 26-28 mm.

# (1 a) Liopasia apicenotata, sp. n.

Head and thorax bright red-brown mixed with some yellowish; abdomen with the two basal segments yellow mixed with fiery red and with subdorsal silvery white spots on basal segment, then grey-brown with dorsal silvery white bar on 3rd segment and the anal segment silvery white, the anal tuft fiery red and yellow; antennæ brown ringed with white; palpi red-brown, white at base; pectus, legs, and ventral surface of abdomen white, the fore tibiæ with some red-brown at base and a band at extremity. Fore wing red-brown tinged with grey and irrorated with blackish; some white at base of inner margin; antemedial line black, oblique to submedian fold, then incurved and slightly defined on inner side by vellowish; a small annulus in middle of cell and oblique discoidal lunule defined by blackish; postmedial line dark, oblique to the subterminal line at vein 5, then rather inwardly oblique and slightly waved to vein 2 where it is bent inwards and oblique to inner margin, with small yellow spots beyond it above and below vein 7 and from below vein 3 to inner margin and sometimes slight vellow and red-brown marks before it between veins 5 and 3; subterminal line red-brown, waved, with yellowish-white spots beyond it in the interspaces between veins 8 and 5, separated by red streaks on the veins, and a spot beyond it above vein 2; a redbrown line before termen; cilia yellowish white intersected with brown at the veins and with red-brown line through them, wholly brown between veins 5 and 3. Hind wing semihyaline white, the termen suffused with red-brown to vein 2; a terminal series of dark points except towards tornus.

Ab. 1. Head and thorax with more yellow, abdomen deep fiery red from 3rd to 7th and base of 8th segment; fore wing yellow mixed with some fiery red, the costal area rufous to the postmedial line, no yellow and white spots beyond the postmedial and subterminal lines, the postmedial line more crenulate between veins 5 and 2.

Hab. Trinidad (Jackson), 2  $\delta$ , 1  $\circ$  type; Venezuela, Palma Sol, 1  $\delta$ , Esteban Valley, Las Quiguas (Klages), 1  $\delta$ , 1  $\circ$ .

Exp. 22-30 mm.

# (1 b) Liopasia leucoperalis, sp. n.

J. Head and thorax rufous, the latter with some whitish at extremity of patagia and on dorsum; abdomen with the three basal segments silvery white with dorsal rufous streak and segmental lines, then rufous with dorsal and subdorsal silvery white spots on 3rd segment and some white on terminal segments, the anal segment with dorsal and subdorsal silvery white spots and the anal tuft white and rufous; palpi white at base; pectus, legs, and ventral surface of abdomen white, the fore tibiæ with red-brown band at extremity. Fore wing rufous, the costal edge white to end of cell, some white at base of inner margin; antemedial line black, oblique to submedian fold, then incurved and with white patch before it on inner margin; a slight black bar in middle of cell, a small round spot at upper angle of cell and minute spot at lower angle; an indistinct waved red-brown postmedial line, oblique to vein 5 at the subterminal line, then inwardly oblique, with silvery white spots beyond it from costa to vein 5 and from vein 3 to inner margin; a waved red-brown subterminal line with rather quadrate silvery white spots beyond it above and below vein 7 and a triangular spot below vein 6, separated by rufous streaks on the veins, a rather bidentate spot beyond it above vein 2; a rufous terminal line; cilia silvery white intersected by rufous streaks on the veins, wholly rufous between veins 5 and 3. Hind wing semihyaline white, the termen suffused with rufous to vein 3; a faint curved rufous postmedial line from costa to vein 2; a rufous terminal line except towards tornus; cilia white, intersected by rufous at the veins to vein 2.

Hab. Peru, Chaquimayo (Watkins), 1 & type. Exp. 32 mm.

# (5) Liopasia incoloralis, sp. n.

3. Head, thorax, and abdomen white tinged with ochreous and faintly with rufous, the last with diffused blackish bands on 4th to anal segments, the anal tuft with some blackish at extremity; palpi pale rufous, white towards base; pectus, legs, and ventral surface of abdomen white. Fore wing white suffused with pale olive-ochreous, the costal area white to the postmedial line; an oblique olive-ochreous band from below costa before the postmedial line to middle of inner margin; postmedial line rather diffused

olive-ochreous, oblique to vein 6, then rather inwardly oblique. Hind wing pure silvery white.

Hab. Br. E. Africa, N. Kavirondo, Maramas Distr., Ilala

(Neave), 7 & type. Exp. 28 mm.

# (8 a) Anarmodia glaucescens, sp. n.

d. Head, thorax, and abdomen pale red-brown with a greyish tinge; palpi white in front to near extremity of 2nd joint; pectus, legs, and ventral surface of abdomen white mixed with some redbrown, the fore and mid tibiæ red-brown, the tibiæ with blackish band at extremity, the tarsi with red-brown bands. Fore wing red-brown glossed with grey; a minute faint blackish spot in middle of cell and two slight blackish discoidal points; an indistinct curved red-brown postmedial line; cilia silvery white, red-Hind wing silvery white; two slight blackish brown at base. marks in the cell and a slight black discoidal lunule; the median nervure and veins beyond lower angle of cell streaked with redbrown; postmedial line dark brown, curved and slightly waved, ending at submedian fold; the termen suffused with dark reddish brown, narrowing to tornus; the cilia silvery white with a series of small dark spots at base to vein 2; the inner margin fringed with black-brown hair; the underside with short black streak followed by a point in the cell and small black discoidal lunule, the postmedial line dentate to vein 5, then with blackish points in the interspaces, the termen irrorated with dark brown.

Hab. Ecuador, R. Pastaza, El Rosario (Palmer), 3 of type.

Exp. 50 mm.

# (11) Anarmodia tesselliferalis, sp. n.

3. Head and thorax rufous, the latter with some whitish behind; abdomen red-brown mixed with some whitish and with red-brown segmental lines; antennæ with the basal joint white in front; frons with white lines at sides; palpi deep rufous, white below to extremity of 2nd joint; pectus, legs, and ventral surface of abdomen white, the fore and mid tibiæ rufous, the abdomen irrorated with brown. Fore wing rufous, the costal area tinged with whitish, the medial area with the submedian interspace and the interspaces beyond the cell white tessellated with black spots, the terminal area tinged with grey; antemedial line indistinct, dark, oblique; the terminal part of cell with a white fascia with a black spot on it at middle of cell with some rufous scales in centre; a quadrate grey-brown discoidal spot, defined at sides by black; postmedial line formed by blackish scales, slightly sinuous, oblique to vein 7 and incurved below vein 3; the terminal area with some blackish irroration in the interspaces; cilia silvery white, dark brown at base. Hind wing silvery white; a slight brown streak on median nervure and oblique black discoidal striga; postmedial line dark, very slightly dentate, indistinct to vein 5, then blackish

and ending at vein 2; the termen narrowly red-brown except at apex; cilia white with slight blackish spots at the veins to vein 2. Underside of fore wing white, the costal and terminal areas greybrown, the spots in the cell black, the postmedial line black and dentate; hind wing with the medial area irrorated with some black scales except towards inner margin, especially above end of cell, the postmedial line produced to minute black streaks on the veins, the termen irrorated with blackish except towards apex.

Hab. Peru, Acopampa (Watkins), 2 & type. Exp. 52 mm.

#### (1 a) Bæotarcha microselene, sp. n.

Q. Head, thorax, and abdomen dark brown with a enpreous gloss; palpi white at base; pectus, legs, and ventral surface of abdomen silvery white. Fore wing dark brown with a cupreous gloss; a faint dark line from origin of vein 2 to inner margin; a slight white discoidal lunule defined by blackish; eilia whitish at tips. Hind wing dark brown with a greyish gloss; a faint dark postmedial line from costa to vein 2; cilia white at tips and the hair on inner margin white; the underside white, the terminal area tinged with brown, a dark postmedial line from costa to discal fold.

Hab. Colombia, Choko Prov., Condoto (Spurrell), 1  $\circ$  type. Exp.~22 mm.

#### (4c) Bootarcha coruleotineta, sp. n.

d. From grey-brown with white lines at sides, the vertex of head white mixed with rufous, the antennæ dark brown with white points in front towards base and the basal joint white on outer side, the palpi rufous, white above defined below by blackish; thorax pale red-brown glossed with silvery blue; abdomen pale rufous with some white towards extremity; pectus, legs, and ventral surface of abdomen white, the fore and mid femora suffused with rufous, the fore tibiæ banded with black, the mid tibiæ irrorated with black, the tarsi banded with black. Fore wing semihvaline whitish suffused with red-brown and glossed with silvery blue, the costa and terminal area dark cupreous brown; antemedial line dark brown, oblique; a dark brown discoidal bar; postmedial line brown with minute blackish streaks on the veins, defined on each side by white marks at costa and incurved below vein 3; a white mark on termen at submedian fold; eilia eupreous brown with a fine white line at base to vein 2, then white. Hind wing semihyaline white; a series of black points on termen to vein 3.

Hab. Dutch N. Guinea, Mt. Goliath (Meek), 1 & type, Snow

Mts., Oetakwa R. (Meek), 1 J. Exp. 28 mm.

# (2a) Calamochrous fulvitinctalis, sp. n.

Head and thorax fulvous with a yellowish tinge; abdomen with the three basal segments fulvous, white at sides, the 3rd with silvery white band behind expanding rather triangularly on dorsum, the 4th with small dorsal silvery white spot, the 4th to anal segments pale red-brown, the anal tuft white tinged with rufous; palpi white below towards base; pectus, legs, and ventral surface of abdomen silvery white, the fore tibie with brown band at extremity. Fore wing yellow suffused with fulvous, the costal edge pure white, red-brown towards base; antemedial line fulvous brown, very oblique to median nervure, then erect and with clearer yellow before it; a minute fulvous brown spot in the cell towards extremity and small discoidal lunule; a fulvous brown shade beyond the cell between veins 8 and 3; postmedial line rather diffused fulvous brown, slightly incurved from below costa to vein 5, then excurved and waved to vein 3 where it is retracted to the lower edge of the shade and erect to inner margin; a series of minute fulvous spots before termen. Hind wing pure white with a faint yellowish tinge on terminal area except towards tornus.

Hab. Admiralty Is. (Meek), 2 ♂, 3 ♀ type; Solomon Is.,

Choiseul I. (Meek), 4 d. Exp. 32-38 mm.

# (14d) Metasia roseocilialis, sp. n.

Q. Head, thorax, and abdomen white with a faint brownish tinge, the last with the terminal segments tinged with pink; palpi red-brown, white below except at tips; pectus, legs, and ventral surface of abdomen white slightly mixed with brown. Fore wing whitish tinged with pale red-brown, the costa black towards base with some pinkish below it; an indistinct curved red-brown antemedial line; a slight red-brown discoidal striga; postmedial line indistinct, pale red-brown, rather oblique to vein 5, bent outwards between veins 5 and 2, then retracted to below end of cell and slightly excurved to inner margin; a terminal series of slight pale red-brown striæ; cilia tinged with pink. Hind wing whitish tinged with pale red-brown; a dark brown discoidal bar; postmedial line dark brown, slightly excurved to discal fold, bent outwards between veins 5 and 2, then retracted to below end of cell and oblique to inner margin near tornus; a terminal series of slight brown striæ; cilia tinged with pink. Underside tinged with pink, the discoidal lunule with white striga in centre, the postmedial line dark brown.

Hab. Br. C. Africa, Mt. Mlanje (Neave), 1 ♀ type. Exp. 26 mm.

# (1 a) Gonopionea biconicalis, sp. n.

Head and thorax rufous, the latter with a silvery gloss except on tegulæ; abdomen whitish suffused with rufous and with dark brown towards extremity, the genital tufts yellowish white; antennæ ringed with black; sides of frons and maxillary palpi dark red-brown; palpi rufous, white below towards base; pectus, legs, and ventral surface of abdomen silvery white, the fore tibiæ with brown band at extremity. Fore wing rufous glossed with silvery blue; a conical yellow antemedial patch from costa to median nervure, its inner edge angled inwards at costa, defined on inner side by the blackish antemedial line which is obliquely excurved to median nervure and incurved just below the cell, defined on outer side by a blackish line except at costa; a conical yellow postmedial

patch from costa to vein 4, defined at sides by sinuous blackish lines, the blackish postmedial line arising from its apex and strongly incurved; the termen with slight yellow spots from below apex to vein 4 and with some yellow towards tornus; cilia yellow, redbrown at apex and between veins 4 and 3. Hind wing white, the terminal area tinged with red-brown to submedian fold.

Hab. Colombia, Sierra del Libane (H. H. Smith), 3 ♂, 1 ♀

type. Exp. 22 mm.

# (3 a) Gonopionea flavidalis, sp. n.

3. Head, thorax, and abdomen white suffused with pale rufous; palpi rufous, white below towards base; pectus, legs, and ventral surface of abdomen pure white, the fore femora and tibiæ brown on inner side, the anal tuft brown below. Fore wing yellow tinged with rufous, the inner half clear yellow to the medial line; antemedial line brown, oblique, from cell to inner margin; a brown medial line from origin of vein 2 to inner margin, angled outwards below submedian fold; a rather lunulate white patch just beyond the cell with clear yellow above it on costa, the yellow on outer side and the white patch except above defined by a dark brown line; a red-brown terminal line; cilia yellowish white, with some dark brown at apex and dark brown between veins 4 and 2. Hind wing white with a dark red-brown terminal line to submedian fold, above which it forms a diffused wedge-shaped patch on vein 2, then a faint red-brown terminal line to tornus; the underside white with postmedial red-brown line between veins 6 and 5.

 $\mathfrak{P}$ . Hind wing with the red-brown on termen rather diffused. Hab. Colombia, Sierra del Libane (H. H. Smith), 1  $\mathfrak{F}$ , 1  $\mathfrak{P}$ 

type. Exp. 26 mm.

# (5) Gonopionea coniferalis, sp. n.

Head, thorax, and abdomen glossy grey-brown; palpi white at base; proboscis white; pectus, legs, and ventral surface of abdomen pure white, the fore tibiæ with black-brown band at extremity. Fore wing glossy grey-brown; antemedial line brown, oblique to submedian fold, then erect; a white bar in upper part of cell towards extremity defined at sides by blackish; a conical yellowish white postmedial patch from costa to vein 5, defined by black and somewhat constricted below costa; a sinuous blackish line from lower angle of cell to inner margin; cilia dark brown, white from below apex to vein 4 and at submedian interspace. Hind wing pale glossy grey-brown, the cilia white at discal fold and towards tornus; the underside white slightly tinged with brown, a brown discoidal bar, the postmedial line brown, excurved to vein 5, then oblique to submedian fold.

Hab. Colombia, Don Amo (H. H. Smith), 1 & type, Choko, Juntas del R. Tamana and R. San Juan (Palmer), 1  $\circ$  . Exp.

16 mm.